UNITED STATES PATENT AND TRADEMARK OFFICE

2

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,777	01/21/2004	Arturo A. Rodriguez .	A-8149	3529	
- · · · · ·	7590 01/24/2007 TLANTA, INC.	EXAMINER			
INTELLECTUA	AL PROPERTY DEPAR	BELOUSOV, ANDREY			
• • • • • • • • • • • • • • • • • • • •	OAF PARKWAY ILLE, GA 30044		ART UNIT	PAPER NUMBER	
LA WILLITOLY.	, O/1 500 1 1		2109		
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	NOTIFICATION DATE .	DELIVERY MODE		
3 MONTHS		01/24/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 01/24/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOmail@sciatl.com

		Application No.		Applicant(s)					
		10/761,77	7	RODRIGUEZ ET AL.					
Office Action Summary			Examiner		Art Unit				
			Andrew Be	lousov	2112				
	- The MAILING DATE of this commun	ication appe	ears on the	cover sheet with the c	orrespondence ad	dress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 munication. tatutory period wi v will, by statute, or	TE OF TH 6(a). In no ever ill apply and will cause the appli	IS COMMUNICATION nt, however, may a reply be timed to be spire SIX (6) MONTHS from cation to become ABANDONE	I. lely filed the mailing date of this on D (35 U.S.C. § 133).				
Status	,								
	Responsive to communication(s) file	ed on 21 Ja	nuan/ 200/	1					
2a)□	•		-						
3)□	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
ا ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
· _	Disposition of Claims								
•	☐ Claim(s) 1-52 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed.								
•	Claim(s) <u>1-52</u> is/are rejected.								
•	Claim(s) is/are objected to. Claim(s) are subject to restrict	otion and/or	· clastica ra	au iromont					
ا (٥	Claim(s) are subject to restric	cuon anu/or	election re	equirement.					
Applicati	on Papers								
9)[The specification is objected to by th	e Examiner	r						
10)⊠	The drawing(s) filed on 1/21/2004 is	-	-						
	Applicant may not request that any obje	ection to the d	drawing(s) be	e held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice (3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 1/21/04; 5/18/05.	PTO-948)		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

Art Unit: 2112

DETAILED ACTION

This action is in response to the original filing of Jan 21, 2004. Claims 1-52 are pending and have been considered below.

Claim Objections

1. Claim 1 is objected to because of the following informalities: Use of an acronym, "TV" needs to be preceded by what it stands for. Appropriate correction is required.

Examiner's Note: Claims 35 through 38 appear to depend upon incorrect parent claims. Claim 35 will be treated as depending on claim 26 for prosecution, because otherwise the dependency as written would make claim 35 contradict itself. Prosecution of claim 36 is likewise treated as depending on claim 26. Prosecution of claims 37 and 38 is treated as depending upon claim 36 to mirror the dependency of parallel method claims of 1-24, because it appears as if the dependency as written is as a result of a typographical error.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2112

3. Claims 1-3, 5-12, 14-28, 30-37, 39-48 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Bruck</u> et al (U.S. Patent No. 6,008,836).

Claim 1: <u>Bruck</u> discloses a method for determining the characteristics of a display device coupled to a network client device capable of receiving TV signals, the network client device having video and audio output capabilities, said method comprising the steps of:

- a. driving a display device with a first video output signal formatted according to a first video interface specification ("improper setting") (col 1, lines 59-63);
- responsive to driving the display device, soliciting user input based on information included in the first video output signal (col 2, lines 64-67);
- c. determining a characteristic of the display device based on the user input (col 8, lines 6-14); and
- d. driving the display device according to the determined characteristic (col 12, lines
 15-18).

Claim 26: <u>Bruck</u> discloses a system for determining the characteristics of a display device, said system comprising:

- a. a memory with display logic (Fig. 1C); and
- b. a processor configured with the display logic to drive a display device with a first video output signal formatted according to a first video interface specification (col 1, lines 59-63), wherein

Art Unit: 2112

c. the processor is further configured with the display logic to, responsive to driving the display device, solicit user input based on information included in the first video output signal (col 2, lines 64-67), wherein

- d. the processor is further configured with the display logic to determine a characteristic of the display device based on the user input (col 8, lines 6-14), wherein
- e. the processor is further configured with the display logic to drive the display device according to the determined characteristic (col 12, lines 15-18).

Claim 2, 27: Bruck discloses the method and system of claims 1 and 26 wherein the characteristic includes at least one of a type of display device, picture size, frame rate, scan format, color format, colorimetry, picture width-to-height aspect ratio, width-to-height aspect ratio of pixels, and capability and manner of receiving ancillary data (col 10, lines 18-49).

Claim 3, 28: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the display device includes at least one of a television set and a display monitor (col 4, line 63).

Claim 5, 30: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the step of driving a display device with a first video output signal includes the step of transmitting at least one of graphics data and video data (Fig. 1B, 6).

Art Unit: 2112

Claim 6, 31: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the step of driving the display device according to the determined characteristic further includes the steps of receiving a TV signal at a network client device, processing the TV signal, and transmitting a video output signal according to the first video interface specification and according to at least one parameter of the TV signal (Fig 2B: 13, 29, 50, 51, 52, 53, 12).

Claim 7, 32: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the transmitted video output signal is delivered through a video port in the network client device, the video port preset according to the first video interface specification and according to at least one parameter of the TV signal (Fig. 1c, 26).

Claim 8, 33: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the step of soliciting includes the step of presenting at least one of visible instructions and audible instructions to the user (col 2, lines 64-67).

Claim 9, 34: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the step of determining includes the step of determining at least one of how to drive the display device such that a legible, nondistorted picture is presented and what are optimal signal parameters to send to the display device (col 8, lines 9-11).

Art Unit: 2112

Claim 10, 35: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the step of determining includes the step of determining at least one of how to drive the display device such that a legible, distorted picture is presented and what are optimal signal parameters to send to the display device (col 8, lines 9-11, col 8, lines 54-56).

Claim 11, 36: Bruck discloses the method and system of claims 1 and 26, further including the step of driving the display device according to a second video format, wherein the step of driving the display device according to a second video format is at least one of a result of an automatic cycling after a defined threshold period of time of receiving no user input and a result of user input (col 12, lines 15-18; user input: col 11, lines 17, 28, 39, 52, 63).

Claim 12, 37: <u>Bruck</u> discloses the method and system of claims 11 and 36, wherein the step of driving the display device according to a second video format includes the step of driving the display device through an output port used to drive the display device according to the first video format (col 12, lines 15-18).

Claim 14: <u>Bruck</u> discloses the method of claim 1, wherein the display device is physically connected to a network client device (col 5, line 19).

Claim 15: <u>Bruck</u> discloses the method of claim 1, wherein the display device is in wireless communication with a network client device (col 5, line 19).

Art Unit: 2112

Claim 39: <u>Bruck</u> discloses the system of claim 26, wherein the processor is further configured with the display logic to effect communication with the display device through at least one of a wireless connection and a physical connection (col 5, line 19).

Page 7

Claim 16: <u>Bruck</u> discloses the method of claim 1, further including the step of receiving a request for discovery of the characteristic (col 7, line 1-35).

Claim 17: <u>Bruck</u> discloses the method of claim 16, wherein the step of receiving a request includes the step of receiving a signal corresponding to the activation of a button on a remote control device (col 7, line 1-35).

Claim 40: <u>Bruck</u> discloses the system of claim 26, further including a remote control device configured with a button that, responsive to activation of the button, cooperates with the display logic to initiate discovery of characteristics of the device (col 7, line 1-35).

Claim 18: <u>Bruck</u> discloses the method of claim 1, further including the step of receiving a request for cycling through at least one of a different video format and a different output port (Fig 10A, 10B 100 102, ...111, 113, B). Examiner's Note: as in claim 16 and 18, the actual performance of the request is not claimed, and as such it is immaterial as to what matter the request is directed to.

Art Unit: 2112

Claim 19: <u>Bruck</u> discloses the method of claim 18, wherein the step of receiving a request includes the step of receiving a signal corresponding to the activation of a button on a remote control device (col 5, lines 25-34).

Claim 41: <u>Bruck</u> discloses the system of claim 26, further including a remote control device (col 5, lines 25-34) configured with a button that, responsive to activation of the button, cooperates with the display logic to cycle through at least one of a plurality of formats and a plurality of video ports (Fig 10A, 10B 100 102, ...111, 113, B).

Claim 20, 42: Bruck discloses the method and system of claims 1 and 26, further including the step of driving the display device according to at least one of the determined characteristic and a plurality of determined characteristics to present content on a display screen of the display device, wherein the step of driving the display device is further according to at least one parameter of a TV signal (col 12, line 15-18; TV signal parameter: Fig, 2B, 29).

Claim 21, 43: <u>Bruck</u> discloses the method and system of claims 20 and 42, further including the step of receiving pictures from a storage device to process and present on the display screen of the display device (col 5, line 67 - col 6, lines 1-6).

Art Unit: 2112

Claim 22, 44: <u>Bruck</u> discloses the method and system of claims 21 and 43, wherein the pictures include at least one of distorted objects, non-distorted objects, distorted images, non-distorted images, visual information, and a graphical characteristic to provide an indication of the characteristic of the display device (col 5, line 67 - col 6, lines 1-6).

Claim 45: <u>Bruck</u> discloses the system of claim 43, wherein the processor is further configured with the display logic, and in cooperation with the media engine and the output system, to distort at least one of objects and video images and leave undistorted at least one of objects and video images (Fig. 7A, 132, 131).

Claim 23, 46: Bruck discloses the method and system of claims 1 and 43, wherein the step of determining a characteristic of the display device further includes the step of determining how a user has configured the display device to display a TV signal of a defined aspect ratio on the display device having at least one of the same physical aspect ratio and a different aspect ratio as the defined aspect ratio of the TV signal (Fig. 7A 131 ("1."). The examiner notes that it is inherent that the TV signal has a defined aspect ratio and that it is different or same as the physical aspect ratio of the display device.

Claim 24, 47: <u>Bruck</u> discloses the method and system of claims 1 and 26, wherein the user input includes user preferences (col 10, line 35-36; col 11, lines 19-23).

Application/Control Number: 10/761,777 Page 10

Art Unit: 2112

Claim 25: <u>Bruck</u> discloses a method for determining the characteristics of a display device coupled to a network client device, said method comprising the steps of:

- a. cycling through a plurality of video formats, each part of the cycle including a
 predetermined time duration (col 12, lines 15-18, user input: col 11, lines 17, 28,
 39, 52, 63);
- b. outputting a video signal including pictures for each part of the cycle, wherein the pictures include at least one of graphics data and video data (Fig. 1B, 6);
- c. processing the pictures for each video format for output to a display device (col 5, line 67 - col 6, lines 1-6);
- d. setting parameters of a video output port according to each video format (Fig 1C, 26);
- e. soliciting a user response for each video format, wherein the step of soliciting includes the step of presenting at least one of visible instructions and audible instructions to the user (col 2, lines 64-67);
- f. determining at least one characteristic of the display device based on the user response, wherein the characteristic includes at least one of type of device, picture size, frame rate, scan format, color format, colorimetry, picture width-to-height aspect ratio, width-to-height aspect ratio of pixels, capability of providing ancillary data, manner of providing the ancillary data (col 10, lines 18-49); and

Art Unit: 2112

g. driving the display device according to the at least one determined characteristic and according to at least one parameter of a received TV signal to present images on a display screen (col 12, line 15-18; TV signal parameter: Fig, 2B, 29).

Claim 48: <u>Bruck</u> discloses the system of claim 26, wherein the system is embodied in a network client device in communication with the display device (col 4, lines 66 - col 5, lines 1-3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruck.

Claim 4, 29: <u>Bruck</u> discloses the method and system of claims 1 and 26. While <u>Bruck</u> does not explicitly disclose wherein the step of driving a display device with a first video output signal further includes the step of transmitting an audio output signal containing audible voice instructions to the user, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide such instructions. One

Art Unit: 2112

would have been motivate to provide voice instructions over the audio capable system disclosed in <u>Bruck</u> (Fig. 1C, 25), so as to accommodate persons with poor eyesight.

Claims 13 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruck in view of Elswick et al. (U.S. Patent No. 6,791,620).

Claim 13, 38: Bruck discloses the method and system of claims 1 and 36. However Bruck does not explicitly disclose wherein the step of driving the display device according to a second video format includes the step of driving the display device through an output port different than the output port used to drive the display device according to the first video format. Elswick discloses a similar system, wherein driving the display device according to a second video format includes the step of driving the display device through an output port (channel) different than the output port (channel) used to drive the display device according to the first video format (col 3, line 9-20). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to drive the display device according to a second video format through an output port different than the output port used to drive the display device according to the first video format. One would have been motivated to do so in order to separately accommodate many video formats independently.

Claims 49 - 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Bruck</u> et al in view of <u>Gove</u> et al (U.S. Patent No. 5,398,071).

Application/Control Number: 10/761,777 Page 13

Art Unit: 2112

Claim 49: <u>Bruck</u> discloses a system for determining a preferred display performance between the deinterlacing ability of a display device coupled to a network client device and the deinterlacing ability of the network client device, said system comprising:

- a. a memory with display logic (Fig. 1C); and
- a processor configured with the display logic to present objects on a display screen of a display device that are altered by the display logic to solicit (col 2, lines 64-67) a response by a user,
- c. wherein the processor is further configured with the display logic to, responsive to the user input (col 8, line 6-14), determine a capability of the display device.

However, <u>Bruck</u> does not explicitly disclose that the determined capability is display device's de-interlacing capability. <u>Gove</u> discloses a similar system for determining preferred display performance using a format detector that is integrated with motion detection logic used for de-interlacing algorithms of standard television formats so as to permit real-time switching to whatever pixel processing algorithm is most appropriate for the data being received (col 1, line 65 - col 2, line 2). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to enable determination of de-interlacing of a signal to be displayed on a display screen. One would have been motivated to provide such a capability so as to properly display ubiquitous interlaced source video on increasingly popular progressive scan displays.

Page 14

Application/Control Number: 10/761,777

Art Unit: 2112

Claim 50: <u>Bruck</u> further discloses the system of claim 49, wherein the display device includes a television set (col 4, line 63).

Claim 51: Bruck discloses the system of claim 49, wherein the processor is further configured with the display logic to determine a capability of the client device.

However, Bruck does not explicitly discloses that the determined capability is display device's de-interlacing capability. Gove discloses a similar system for determining preferred display performance using a format detector that is integrated with motion detection logic used for de-interlacing algorithms of standard television formats so as to permit real-time switching to whatever pixel processing algorithm is most appropriate for the data being received (col 1, line 65 - col 2, line 2). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to enable determination of de-interlacing of a signal to be displayed on a display screen.

One would have been motivated to provide such a capability so as to properly display ubiquitous interlaced source video on increasingly popular progressive scan displays.

Claim 52: <u>Bruck</u> further discloses the system of claim 49, wherein the system is embodied in a network client device capable of outputting video and audio in at least one defined format through at least one port (col 4, lines 66 - col 5, lines 1-3; col 5, lines 41-59).

Art Unit: 2112

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Glen, U.S. Patent No. 6,157,415.
 - b. <u>Simpson</u>, U.S. Patent No. 5,838,393

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Belousov whose telephone number is (571) 270-1695. The examiner can normally be reached on Mon-Fri (alternate Fri off) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Myhre can be reached on (571) 272-6722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2112

AB Jan 17, 2007 James W. Myhre Supervisory Primary Examiner Page 16